

Algebra II GHP
Finding the roots
Wksht #1 1-8 all

Name _____
Date _____

I. List all the possible roots then use them to find the roots of the following polynomial functions.

1) $y = x^3 + 6x^2 - x - 6$

2) $x^3 + 3x^2 - 4x - 12 = 0$

3) $f(x) = x^3 - 12x + 16$

4) $a^3 - 3a - 2 = 0$

5) $y = x^4 - x^3 - 11x^2 + 9x + 18$

6) $3z^3 + 10z^2 - z - 12 = 0$

7) $h(a) = 2a^3 - 11a^2 - a + 30$

8) $x^3 + 2x^2 + 9x + 18 = 0$